**Precalculus**

**Notes 5.1**

1. **Using Fundamental Identities**

* In this chapter we will use these identities to:

1. Evaluate trig functions
2. Simplify trig expressions
3. Find new trig identities
4. Solve trig equations

**Ex. 1:** Given and .

1. Find the 6 trig functions using trig identities.
2. Find these 6 functions using a right triangle drawn in the correct quadrant.

is in which quadrant?

**Ex. 2:** Simplify .

**Ex. 3:** Factor each expression.

**Ex. 4:** Factor

**Ex. 5:** Simplify

**Ex. 6:** Verify the following identity:

**Ex. 7:** Rewrite it’s not in fractional form

**Ex. 8:** Use the substitution to express as a trig function of